

USPTO Form 1449		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 03848-00132		Serial No. TBA	
INFORMATION DISCLOSURE CITATION Sheet 1 of 5				Applicants: Marc I. Glazer, et al.			
				Filing Date: Herewith		Group: TBA	
U.S. PATENT DOCUMENTS							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
BF	AA	3,640,093	02/08/72	Levene et al.	65	134	07/22/69
	AB	4,220,461	09/02/80	Samanta	65	22	04/06/78
	AC	4,426,216	01/17/84	Satoh et al.	65	18.1	01/17/84
	AD	4,528,010	07/09/85	Edahiro et al.	65	18.1	07/09/85
	AE	4,765,818	08/23/88	Che et al.	65	18.1	08/23/88
	AF	5,009,688	04/23/91	Nakanishi	65	18.3	04/23/91
	AG	5,143,854	09/01/92	Pirrung et al.	436	518	03/07/90
	AH	5,252,743	10/12/93	Barrett et al.	548	303.7	11/13/90
	AI	5,288,514	02/22/94	Ellman	427	2	09/14/92
V	AJ	5,384,261	01/24/95	Winkler et al.	436	518	11/22/91
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation
							YES NO
BF	AK	EP 0 348 041 A	12/27/89	EPO			
BF	AL	EP 0 368 279	05/16/90	EP			
	AM	JP 8151232 A	06/11/96	Japan			
BF	AN	WO 89/10977	11/16/89	PCT			
BF	AO	WO 89/11548	11/30/89	WO			
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
BF	AP	Antonietti, et al., "Synthesis of Mesoporous Silica with Large Pores and Bimodal Pore Size Distribution by Templating of Polymer Latices", (1998) <i>Advanced Materials</i> 10:2, pp. 154-159					
BF	AQ	Arshady et al., "Peptide Synthesis. . .," <i>J. Chem. Soc. Perkin. Trans.</i> , 1:529-537 (1981)					
BF	AR	Chaiken, "Semisynthetic Peptides and Proteins," <i>CRC Crit. Rev. Biochem.</i> , 11:255-301 (1981)					
BF	AS	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," <i>Science</i> , 274:610-614 (1996)					
EXAMINER /Betty Forman/					DATE CONSIDERED 06/19/2006		
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.**Copies of references not provided at the time of this submission.</small>							

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INFORMATION DISCLOSURE CITATION Sheet 2 of 5				Applicants: Marc I. Glazer et al.				
				Filing Date: Herewith			Group: TBA	
U.S. PATENT DOCUMENTS								
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
BF	BA	5,405,783	04/11/95	Pirrung et al.	436	518	04/11/95	
	BB	5,409,683	04/25/95	Tillotson et al.	423	338	04/25/95	
	BC	5,412,087	05/02/95	McGall et al.	536	24.3	04/24/92	
	BD	5,424,186	06/13/95	Fodor et al.	435	6	12/06/91	
	BE	5,445,934	08/29/95	Fodor et al.	435	6	08/29/95	
	BF	5,451,683	09/19/95	Barrett et al.	548	302.7	04/23/93	
	BG	5,510,270	04/23/96	Fodor et al.	436	518	09/30/92	
	BH	5,527,681	06/18/96	Holmes	435	6	11/05/92	
	BI	5,541,061	07/30/96	Fodor et al.	435	6	04/29/92	
	BJ	5,545,531	08/13/96	Rava et al.	435	6	06/07/95	
↓	BK	5,547,839	08/20/96	Dower et al.	435	6	12/06/90	
FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
BF	BL	WO 92/10092	06/25/92	WO				
BF	BM	WO 92/20702	11/26/92	WO				
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)								
BF	BN	Cho et al., "An Unnatural Biopolymer," <i>Science</i> , 261:1303-1305 (1993)						
BF	BO	de Saizieu et al., "Bacterial Transcript Imaging by Hybridization of Total RNA to Oligonucleotide Arrays," <i>Nature Biotechnology</i> , 16:45-48 (1998)						
BF	BP	Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> , 251:767-773 (1991)						
BF	BQ	Forman et al., "Thermodynamics of Duplex Formation and Mismatch Discrimination on Photolithographically Synthesized Oligonucleotide Acids," <i>Am. Chem. Soc. (ACS) Symposium Series</i> 682, Chapter 13, pp. 206-228 (1998)						
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U.S. PATENT DOCUMENTS								
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
BF	CA	5,571,639	11/05/96	Hubbell et al.	430	5	05/24/94	
	CB	5,599,695	02/04/97	Pease et al.	435	91.1	02/27/95	
	CC	5,624,711	04/29/97	Sundberg et al.	427	261	04/29/97	
	CD	5,624,875	04/29/97	Nakanishi et al.	501	39	01/18/96	
	CE	5,631,734	05/20/97	Stern et al.	356	317	02/10/94	
	CF	5,639,603	06/17/97	Dower et al.	435	6	11/02/93	
	CG	5,677,195	10/14/97	Winkler et al.	436	518	11/20/92	
	CH	5,710,000	01/20/98	Sapolsky et al.	435	6	06/07/95	
FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
BF	CI	WO 95/11995	05/04/95	WO				
BF	CJ	WO 97/10365	03/20/97	WO				
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)								
	CK	Glazer et al. in <i>Organic/Inorganic Hybrid Materials II</i> , Volume 576 (L.C. Klein, L.F. Francis, M.R. De Guire, J.E. Mark, editors) (proceedings of the Materials Research Society meeting, Spring 1999) pp. 371-376						
	CL	Holland et al., "Synthesis of Macroporous Minerals with Highly Ordered Three-Dimensional Arrays of Spheroidal Voids", <i>Science</i> , 281, pp. 538-540 (1998)						
	CM	Kaiser et al., "Peptide and Protein Synthesis by Segment Synthesis-Condensation," <i>Science</i> , 243:187-192 (1989)						
	CN	Kent, "Chemical Synthesis of Peptides and Proteins," <i>Ann. Rev. Biochem.</i> , 57:957-989 (1988)						
	CO	Lockhart et al., "Expression Monitoring by Hybridization to High-Density Oligonucleotide Arrays," <i>Nature Biotechnology</i> , 14:1675-1680 (1996)						
	CP	McGall et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates", <i>J. Am. Chem. Soc.</i> 119:22, pp. 5081-5090 (1997)						
EXAMINER /Betty Forman/					DATE CONSIDERED 06/19/2005			
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U.S. PATENT DOCUMENTS							
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
BF	DA	5,744,101	04/28/98	Fodor et al.	422	131	02/14/95
↓	DB	5,744,305	04/28/98	Fodor et al.	435	6	06/06/95
	DC	5,770,358	06/23/98	Dower et al.	435	6	09/16/92
	DD	5,795,716	08/18/98	Chee et al.	435	6	10/21/94
	DE	5,800,992	09/01/98	Fodor et al.	435	6	06/25/96
	DF	5,831,070	11/03/98	Pease et al.	536	25.3	04/19/96
	DG	5,837,832	11/17/98	Chee et al.	536	22.1	05/16/95
	DH	5,843,655	12/01/98	McGall	435	6	09/18/95
	DI	5,858,462	01/12/99	Yamazaki	427	226	07/18/96
↓	DJ	5,858,659	01/12/99	Sapolsky et al.	435	6	11/29/95
FOREIGN PATENT DOCUMENTS							
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO
BF	DK	WO 97/39151 A	10/23/97	PCT			
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
BF	DL	McGall et al., "Light-Directed Synthesis of High-Density Oligonucleotide Arrays Using Semiconductor Photoresists", <i>Proc. Natl. Acad. Sci</i> 93, pp. 13555-13560 (1996)					
↓	DM	Merrifield, "Solid Phase Synthesis," <i>Science</i> , 232:341-347 (1986)					
	DN	Merrifield, "The Total Synthesis of an Enzyme with Ribonuclease A Activity," <i>J. Am. Chem. Soc.</i> , 91:501-502 (1969)					
	DO	Pease et al., "Light-generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis", <i>Proc. Natl. Acad. Sci</i> 91, pp. 5022-5026 (1994)					
	DP	Proudnikov et al., "Immobilization of DNA in Polyacrylamide Gel for the Manufacture of DNA and DNA-Oligonucleotide Microchips, <i>Anal. Biochem.</i> 259, pp. 34-41 (1998)					
↓	DQ	H. Scholze "New Possibilities for Variation of Glass Structure", <i>J. Non-Crystalline Solids</i> 73:669-680 (1985)					
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U.S. PATENT DOCUMENTS							
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
BF	EA	5,861,242	01/19/99	Chee et al.	435	5	01/09/97
	EB	5,919,523	07/06/99	Sundberg et al.	427	333	10/24/97
	EC	5,981,956	11/09/99	Stern	250	458.1	05/15/97
	ED	6,025,601	02/15/00	Trulson et al.	250	461.2	06/09/97
	EE	6,040,138	03/21/00	Lockhart et al.	435	6	09/15/95
	EF	6,228,575	05/08/01	Gingeras et al.	435	5	02/07/97
↓	EG	6,262,216	07/17/01	McGall	528	10	10/13/98
FOREIGN PATENT DOCUMENTS							
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO
BF	EH	WO 98/41534 A	09/24/98	PCT			
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
BF	EI	Subramania et al., "Optical Photonic Crystals Fabricated From Colloidal Systems", <i>Applied Physics Letters</i> 74:26, pp. 3933-3935 (1999)					
	EJ	Subramania et al., "Ordered Macroporous Materials by Colloidal Assembly: A Possible Route to Photonic Bandgap Materials", <i>Advanced Materials</i> , 11:15, pp. 1261-1265 (1999)					
	EK	Velev et al., "Porous silica via colloidal crystallization" <i>Nature</i> 389, pp. 447-448 (1997)					
	EL	Wijnhoven et al., "Preparation of Photonic Crystals Made of Air Spheres in Titania", <i>Science</i> 281, pp. 802-804 (1998)					
	EM	"Chemistry for Automated DNA Synthesis," <i>PCR-Mate EP Model 391 DNA Synthesizer User's Manual</i> , Applied Biosystems, Section 6, pp. 1-24 (2002)					
↓	EN	<i>Sol-Gel Science: The Physics and Chemistry of Sol-Gel Processing</i> (C.J. Brinker and G.W. Scherer, editors) Academic Press, 1990, pp. 787-797					
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